The Claims

1. Color blindness rectification spectacles, characterized in that, based on color blindness rectification principle and the physiological and psychological functions of human eyes for maximizing, emulation, blending and integration, fabricating the color blindness rectification spectacles by mounting a glass for rectifying the proportionment of the primary colors to normal status at one side of the spectacles frame, and mounting a glass for improving the luminosity of chromatic vision to normal status at the other side of the spectacles frame.

2. The color blindness rectification Spectacles according to Claim 1, characterized in that, the glass for rectifying the proportionment of the primary colors to normal status is fabricated by selecting corresponding rectifying spectral curves according to the types and levels of color blindness.

3. The color blindness rectification Spectacles according to Claim 1, characterized in that, the glass for improving the luminosity of chromatic vision to normal status is selected for rectification by different levels determined by the improvement of every 500-600nm light transmittance.

4. A method of fabricating color blindness rectification spectacles in

Claim 1, characterized in that,

the rectifying glass for three primary colors are fabricated by: firstly determining the type, level and spectral curves for rectifying color blindness with a chromatic vision detector; coloring a base glass, designing the film system according to the spectral curves; putting the base glass into a vacuum deposition machine to conduct coating according to the film system design; and conducting chromeplating for the last layer,

similarly steps are used for the glass for improving chromatic luminosity: determining the rectifying spectral curves for the glass with a chromatic vision detector which normalizes the luminosity without changing the proportionment of the rectified three primary colors; then coloring a same base glass as that for three primary colors with the same colors, designing the film system according to the selected spectral curves; putting the base glass into a vacuum deposition machine to conduct coating according to the film system design; and conducting chromeplating for the last layer,

mounting the above two kinds of glasses into a spectacles frame regardless of left and right, and the color blindness rectification fabricated.

Abstract

Color blindness rectification spectacles, based on color blindness rectification principle and the physiological and psychological functions of human eyes for maximizing, emulation, blending and integration, fabricating the color blindness rectification spectacles by mounting a glass for rectifying the proportionment of the primary colors to normal status at one side of the spectacles frame, and mounting a glass for improving the luminosity of chromatic vision to normal status at the other side of the spectacles frame, such that the vectors of the three primary colors received by the cerebral cortex of a patient with color blindness tend to be normal, so that the objective of rectifying color blindness is achieved. The method is scientific and reliable.